Electricity Bill Suite - Project Overview

1. File Structure

ElectricityBillSuite.sIn

■ ElectricityBillSuite.Web (ASP.NET Web Forms project)

■ ■ Global.asax

■ ■ Web.config

■ ■ Site.master

■ ■ Default.aspx (+ Default.aspx.cs)

■ Register.aspx (+ Register.aspx.cs)

■ UserLogin.aspx (+ UserLogin.aspx.cs)

■ AdminLogin.aspx (+ AdminLogin.aspx.cs)

■ UserDashboard.aspx (+ .cs)

■ AdminDashboard.aspx (+ .cs)

■ ■ Payment.aspx (+ .cs)

■ PaymentSuccess.aspx (+ .cs)

■ NewConnection.aspx (+ .cs)

■ RaiseConcern.aspx (+ .cs)

■ ■ ViewBills.aspx (+ .cs)

■ Outage.aspx (+ .cs)

■ ■ ManageOutages.aspx (+ .cs)

■ GenerateBill.aspx (+ .cs)

■ Reports.aspx (+ .cs)

■ ■ App Code

■ ■ DatabaseConnection.cs

■ ■ PdfHelper.cs

2. Towail of Application

■ ■ ■ Ottlity.cs ■ ■ Styles/adani.css

■ Scient Redissiristion → UserLogin → UserDashboard

■ ebdbprj (Database project)
 ■ Sternov Ster

■ • ■ Mobily Growing the Watching connection (uploads, fee) → Admin assigns connection

■ 02_Tables.sql

■ • ଅର୍ନ୍ଧାନ୍ତ କ୍ରେମ୍ବର୍

AdminDashboard → Revenue Reports (Chart.js + DataTables)

• Admin sends legal notices (PDF via EmailService)

3. Libraries & Dependencies

- ASP.NET Web Forms (.NET Framework 4.7.2) UI and code-behind model
- System.Data.SqlClient database connections
- Bootstrap 5 (CDN) responsive UI
- ¡Query (CDN) interactivity
- Chart.js (CDN) revenue charts
- DataTables.js (CDN) admin searchable/sortable tables
- iTextSharp (NuGet optional) rich PDF generation
- SMTP (System.Net.Mail) sending email with attachments
- Razorpay JS + Webhook payment integration (test mode)

4. Concepts Used

- Master Page for common layout (Site.master)
- Code-behind model for UI events
- ADO.NET SqlConnection, SqlCommand for DB operations
- Role-based login (User vs Admin)